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TITLE: EYEGGLASS ASSEMBLY HAVING AUXILIARY FRAME

BACKGROUND OF THE INVENTION

1. Field of the Invention

05 The present invention relates to a pair of eyeglasses, and more particularly to a pair of eyeglasses having an auxiliary frame for supporting auxiliary lenses.

2. Description of the Prior Art

10 The closest prior art of which applicant is aware is US Patent 5,568,207 to Chao and has been assigned to the present assignee. The extensions of the primary frame are not provided in the rim lock portions.

15 The present invention has arisen to provide a primary frame having the magnets provided in the rim lock portions.

SUMMARY OF THE INVENTION

20 The primary objective of the present invention is to provide an eyeglass assembly in which the extensions of the primary frame may be provided in the rim lock portions and may be engaged with magnets for allowing the lenses to be easily engaged into the primary frame.

25 In accordance with one aspect of the invention, there is provided an eyeglass assembly comprising a primary frame including two sides each having a rim lock, the rim locks each including an upper member and a lower member, the lower members each including an opening, two first magnets each including an upper

portion secured to the upper member and each including
a lower portion engaged in the opening of the lower
member for allowing the lower portion to be disengaged
from the lower member, an auxiliary frame for disposing
05 in front of the primary frame, the auxiliary frame
including two sides each having an extension extended
rearward toward the primary frame and extending over the
rim locks, and two second magnets secured in the
extensions for engaging with the first magnets and for
10 securing the auxiliary frame to the primary frame.

Further objectives and advantages of the present
invention will become apparent from a careful reading
of a detailed description provided hereinbelow, with
appropriate reference to accompanying drawings.

15 BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is an exploded view of an eyeglass assembly
having an auxiliary frame in accordance with the
present invention;

FIG. 2 is a perspective view of the eyeglass
20 assembly; and

FIG. 3 is a cross sectional view taken along lines
3-3 of FIG. 1.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to the drawings, and initially to FIGS.
25 1 and 2, an eyeglass assembly in accordance with the
present invention comprises a primary frame 10 for
supporting primary lenses 90 and including two rim

locks 11 formed in the side portions. Two magnets 19 are secured in the rim locks 11 respectively. An auxiliary frame 20 for supporting auxiliary lenses 91 and for disposing in front of the primary frame includes two extensions 21 disposed in the side portions and extended rearward for engaging over the rim locks 11 of the primary frame 10 respectively. The extensions 21 each includes a magnet 22 for engaging with the magnet 19 of the rim lock 11 and for securing the auxiliary frame 20 to the primary frame 10.

Referring again to FIG. 1, the rim locks 1 each includes an upper member 12 and a lower member 14 for allowing the primary frame to be opened and for allowing lenses to be easily engaged into the primary frame. The upper and the lower members 12, 14 include a hole 15 for engaging with a fastener 16 which may secure the upper and the lower members 12, 14 together, and include an orifice 17 for engaging with another fastener 18 which may be used for securing the legs 92 to the primary frame 10.

Referring next to FIG. 3, the magnet 19 includes an upper portion secured to the upper member 12 and includes a lower portion engaged in an opening 141 formed in the lower member 14. The opening 141 includes a size greater than that of the lower portion of the magnet 19 such that the lower portion of the magnet 19 may be disengaged from the lower member 14 when the

upper member 12 is disengaged from the lower member 14 for engaging lenses into the primary frame 10. The magnets 19 thus will not affect the engagement of the lenses into the primary frame.

05 Alternatively, the upper and the lower members 12, 14 each includes an inner thread formed therein and the magnets 19 are bolts for engaging with the inner threads of the upper and the lower members 12, 14 and for securing the members 12, 14 together without the
10 fasteners 16.

 Accordingly, the eyeglass assembly in accordance with the present invention includes a primary frame having a pair of magnets secured in the rim locks and having a configuration for preventing the magnets from
15 affecting the assembling of the lenses.

 Although this invention has been described with a certain degree of particularity, it is to be understood that the present disclosure has been made by way of example only and that numerous changes in the detailed
20 construction and the combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as hereinafter claimed.

I CLAIM:

1. An eyeglass assembly comprising:

a primary frame including two sides each having a rim lock, said rim locks each including an upper member and a lower member, said lower members each including an opening.

05 two first magnets each including an upper portion secured to said upper member and each including a lower portion engaged in said opening of said lower member for allowing said lower portion to be disengaged from
10 said lower member,

an auxiliary frame for disposing in front of said primary frame, said auxiliary frame including two sides each having an extension extended rearward toward said primary frame and extended over said rim locks, and

15 two second magnets secured in said extensions for engaging with said first magnets and for securing said auxiliary frame to said primary frame.

ABSTRACT OF THE DISCLOSURE

An eyeglass assembly includes a primary frame having two side rim locks. The rim locks each includes an upper member and a lower member having an opening.

- 05 Two magnets each has an upper portion secured to the upper member and each has a lower portion engaged in the opening of the lower member for allowing the lower portion to be disengaged from the lower member. An auxiliary frame includes two side extensions for
- 10 extending over the rim locks each having a magnet for securing the auxiliary frame to the primary frame.

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